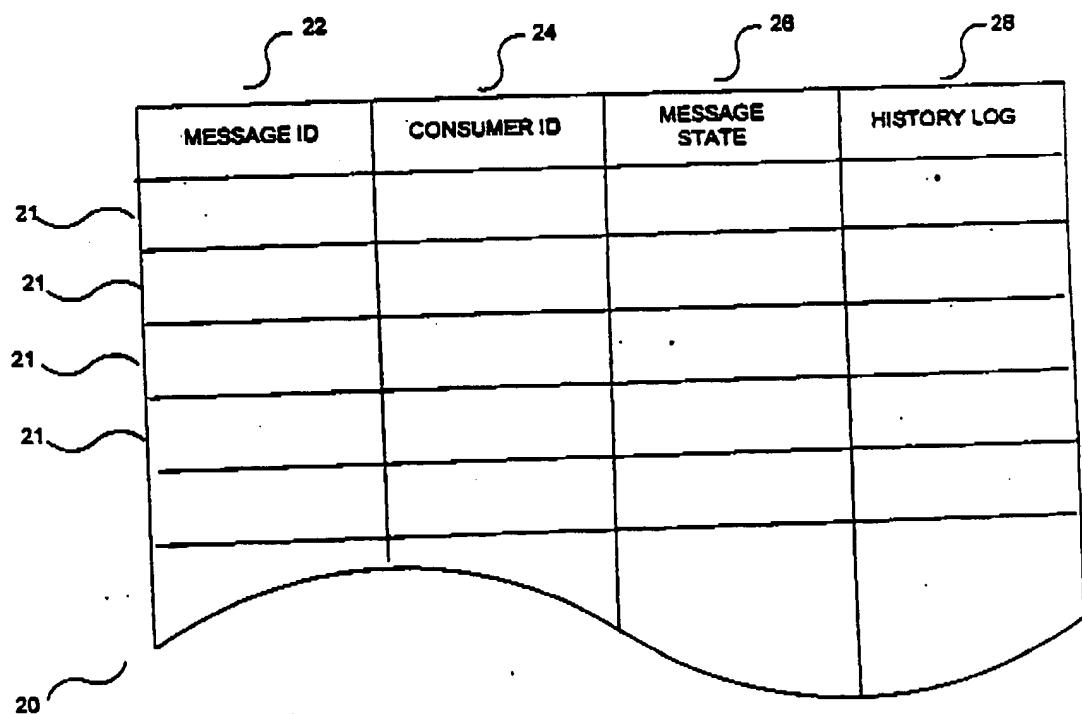


FIG. 1A



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FIG. 1B

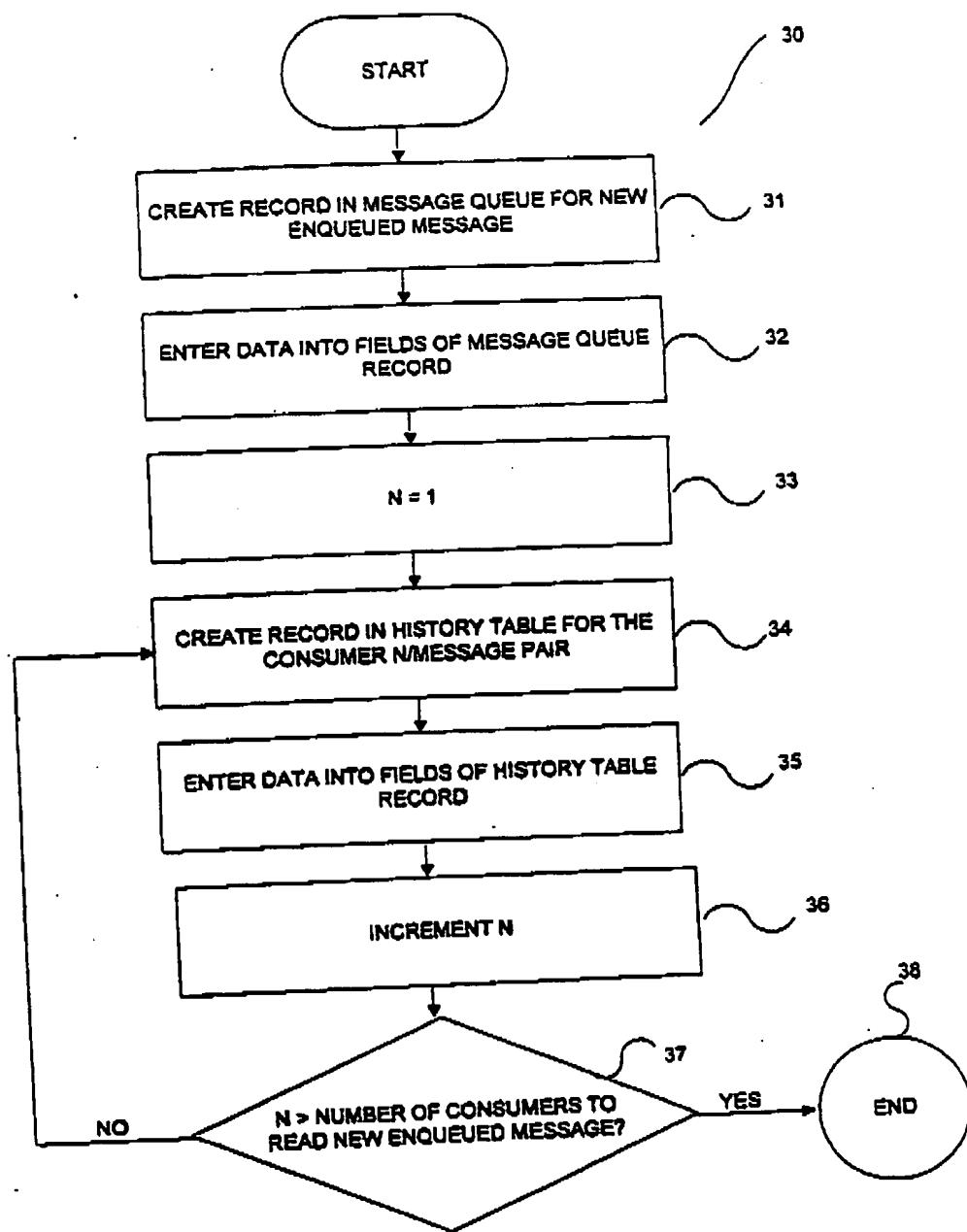


FIG. 2

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40

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES

FIG. 3A-1

42

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG

FIG. 3A-2

46 ~

47

48

44 ~

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
wavy line	MSG_X	wavy line
47	48	

50 ~

54 ~

56 ~

58 ~

51

55

57

52 ~

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	wavy line
MSG_X	B	ENQUEUED	wavy line
MSG_X	C	ENQUEUED	wavy line

FIG. 3B-1**FIG. 3B-2**

44 ~

62 ~

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
wavy line	MSG_X	wavy line

FIG. 3C-1

61 ~

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	wavy line
MSG_X	B	READ	wavy line
MSG_X	C	ENQUEUED	wavy line

FIG. 3C-2

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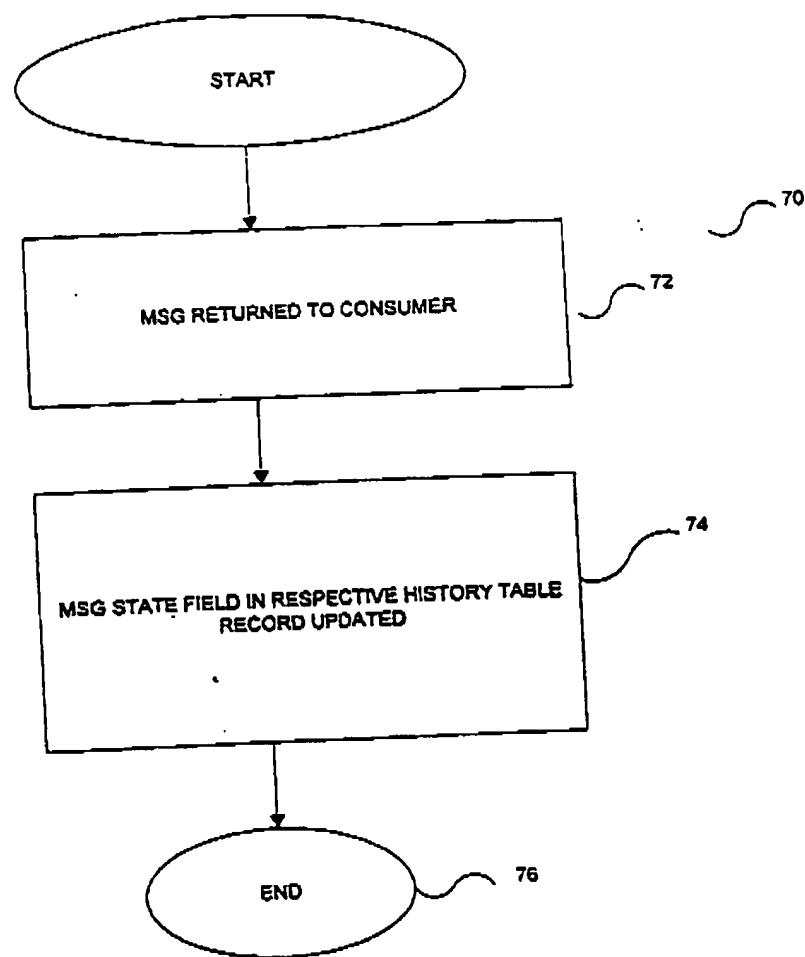
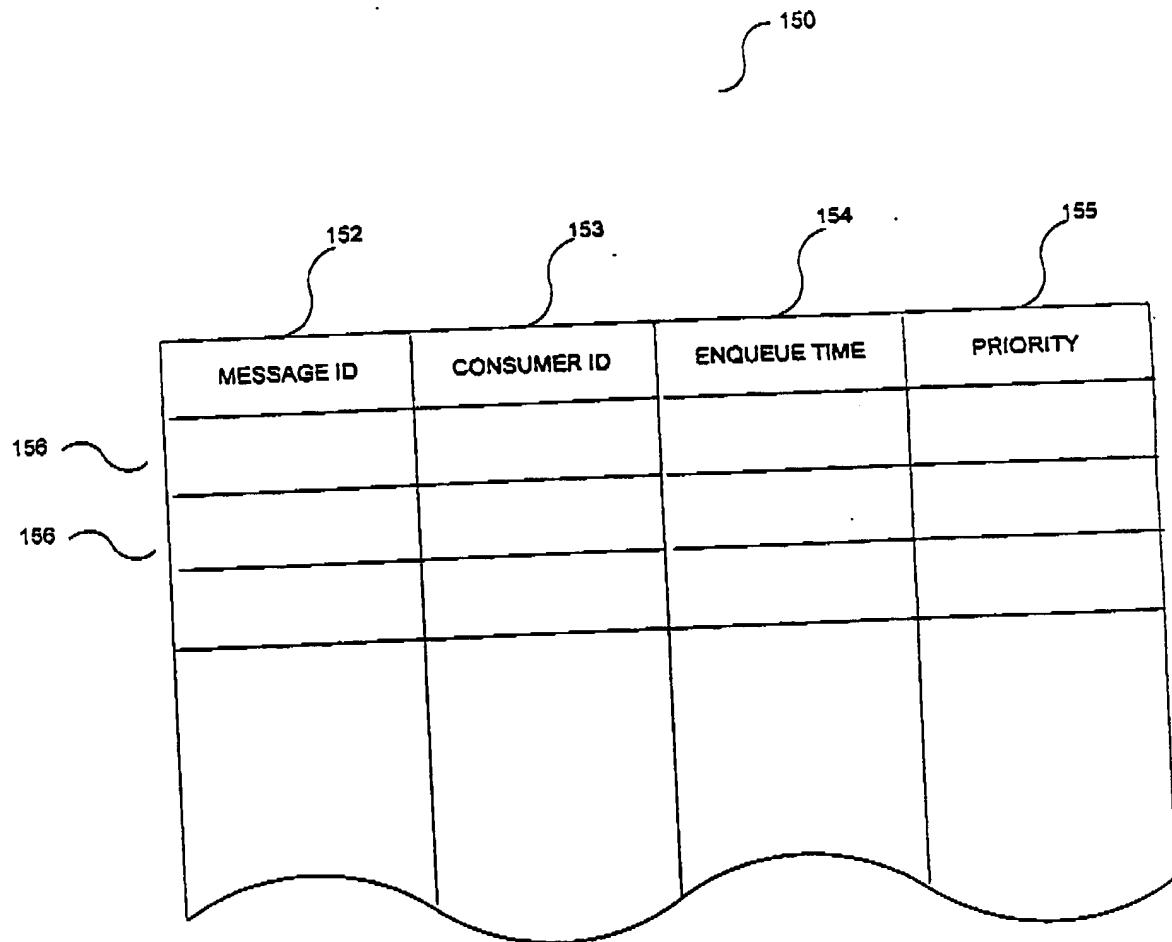


FIG. 4

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**FIG. 5**

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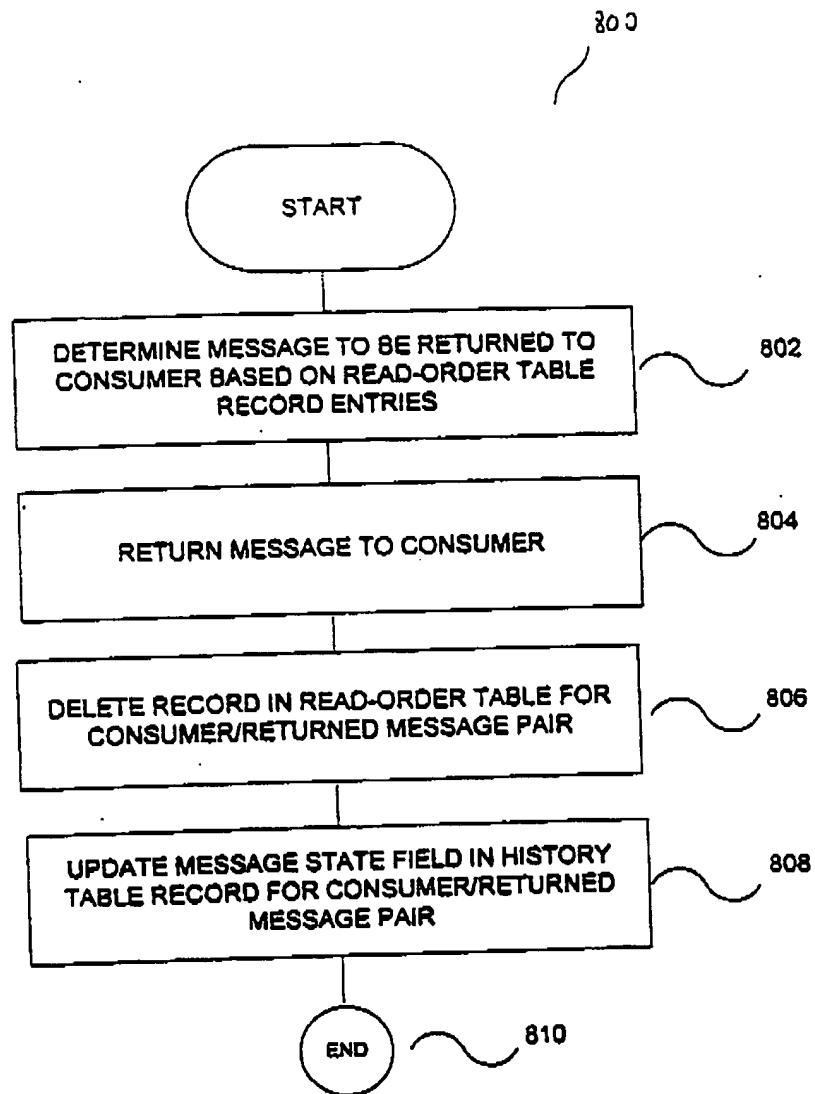


FIG. 6

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
530 ~	MSG_X	~
532 ~	MSG_Y	~

FIG. 7A-1

MESSAGE ID	CONSUMER ID	ENQUEUE TIME
551 MSG_X	A	8:05
552 MSG_X	B	8:05
553 MSG_Y	A	9:10
554 MSG_Y	B	9:10
555 MSG_Y	C	9:10
556 MSG_Y	D	9:10

FIG. 7A-2

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
580 MSG_X	A	ENQUEUED	~
581 MSG_X	B	ENQUEUED	~
582 MSG_Y	A	ENQUEUED	~
583 MSG_Y	B	ENQUEUED	~
584 MSG_Y	C	ENQUEUED	~
585 MSG_Y	D	ENQUEUED	~

FIG. 7A-3

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
530 ~	MSG_X	~
532 ~	MSG_Y	~

FIG. 7B-1

MESSAGE ID	CONSUMER ID	ENQUEUE TIME
MSG_X	A	8:05
MSG_Y	A	9:10
MSG_Y	B	9:10
MSG_Y	C	9:10
MSG_Y	D	9:10

FIG. 7B-2

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	~
MSG_X	B	READ	~~
MSG_Y	A	ENQUEUED	~~~
MSG_Y	B	ENQUEUED	~~~~
MSG_Y	C	ENQUEUED	~~~~~
MSG_Y	D	ENQUEUED	~~~~~

FIG. 7B-3

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MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
wave	MSG_X	wave
wave	MSG_Y	wave
wave	MSG_Z	wave

FIG. 8A-1

MESSAGE ID	CONSUMER ID	ENQUEUE TIME	PRIORITY
MSG_X	A	8:05	2
MSG_X	B	8:05	2
MSG_Y	A	8:30	1
MSG_Y	B	8:30	1
MSG_Z	A	9:00	1

FIG. 8A-2

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	wave
MSG_X	B	ENQUEUED	wave
MSG_Y	A	ENQUEUED	wave
MSG_Y	B	ENQUEUED	wave
MSG_Z	A	ENQUEUED	wave

FIG. 8A-3

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
wave	MSG_X	wave
wave	MSG_Y	wave
wave	MSG_Z	wave

FIG. 8B-1

MESSAGE ID	CONSUMER ID	ENQUEUE TIME	PRIORITY
MSG_X	A	8:05	2
MSG_X	B	8:05	2
MSG_Y	B	8:30	1
MSG_Z	A	9:00	1

FIG. 8B-2

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	wave
MSG_X	B	ENQUEUED	wave
MSG_Y	A	READ	wave
MSG_Y	B	ENQUEUED	wave
MSG_Z	A	ENQUEUED	wave

FIG. 8B-3

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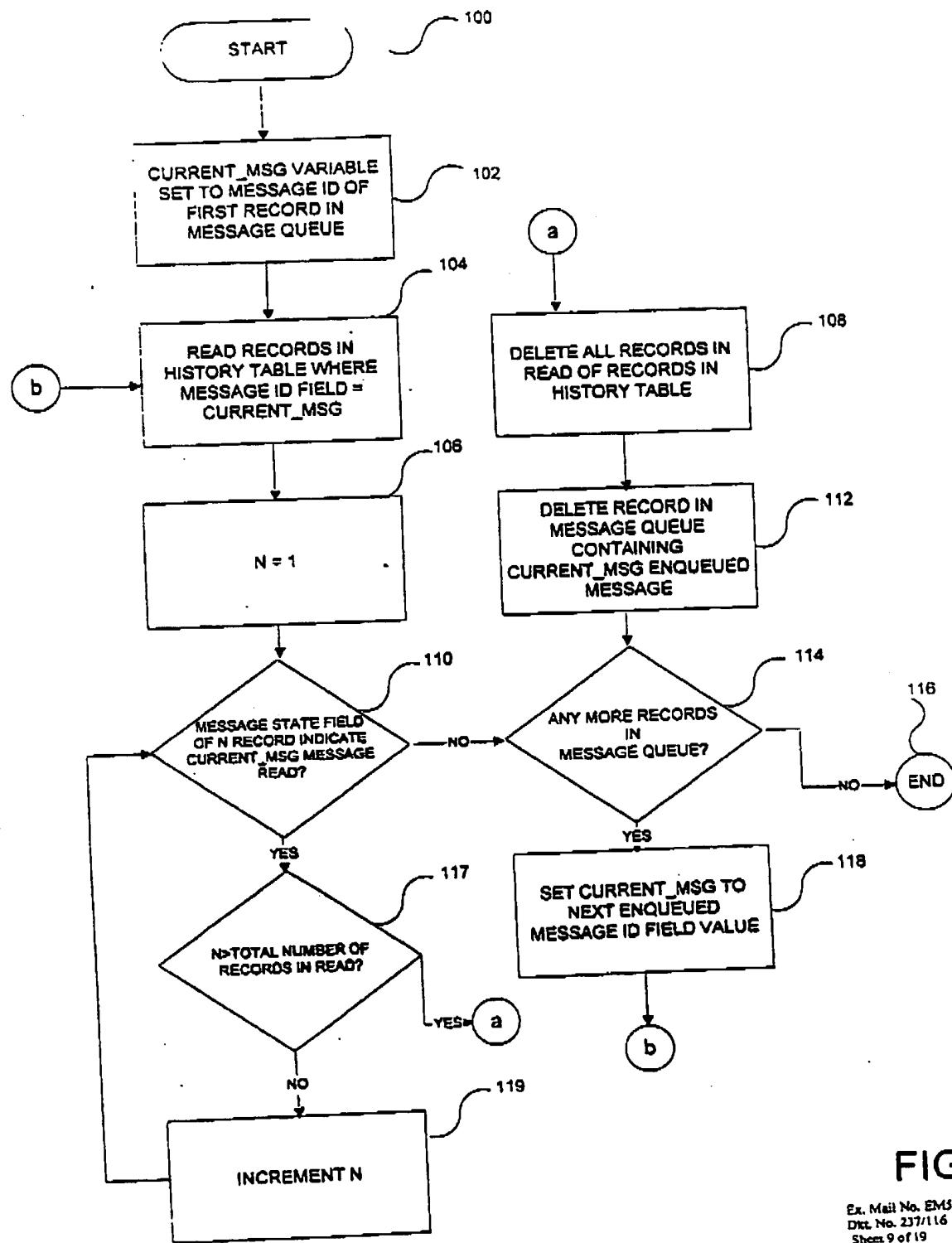


FIG. 9

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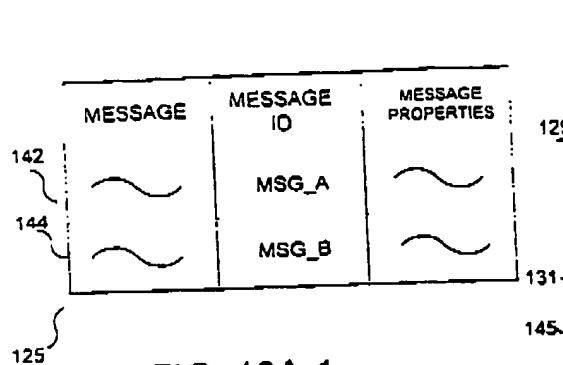


FIG. 10A-1

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_A	J	READ	wavy line
MSG_A	K	READ	wavy line
MSG_B	W	ENQUEUED	wavy line
MSG_B	X	READ	wavy line
MSG_B	Y	ENQUEUED	wavy line
MSG_B	Z	ENQUEUED	wavy line

FIG. 10A-2

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
141	MSG_B	132

FIG. 10B-1

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_B	W	ENQUEUED	wavy line
MSG_B	X	READ	wavy line
MSG_B	Y	ENQUEUED	wavy line
MSG_B	Z	ENQUEUED	wavy line

FIG. 10B-2

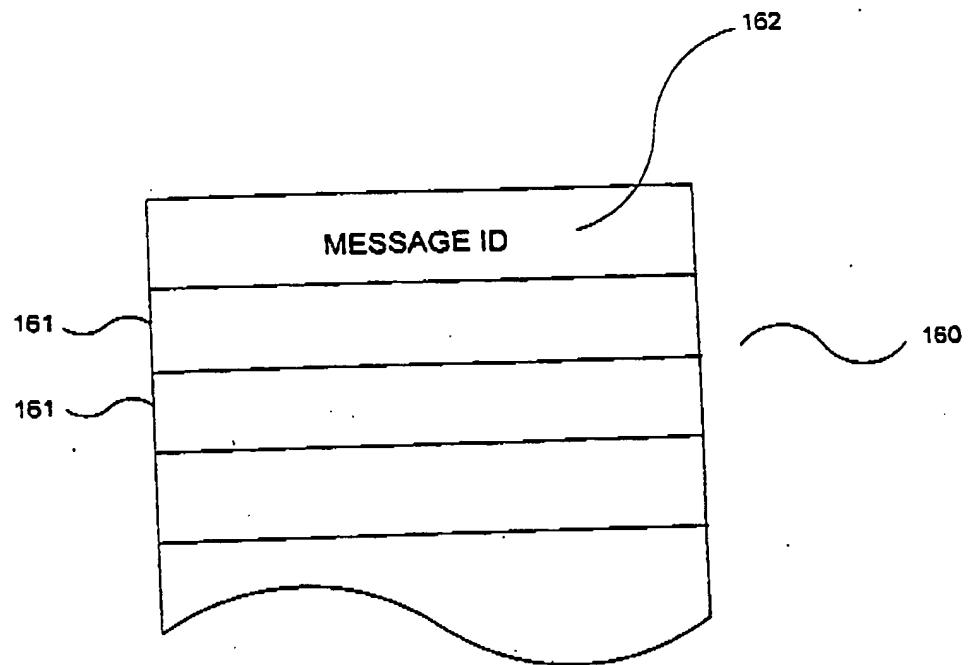


FIG. 11

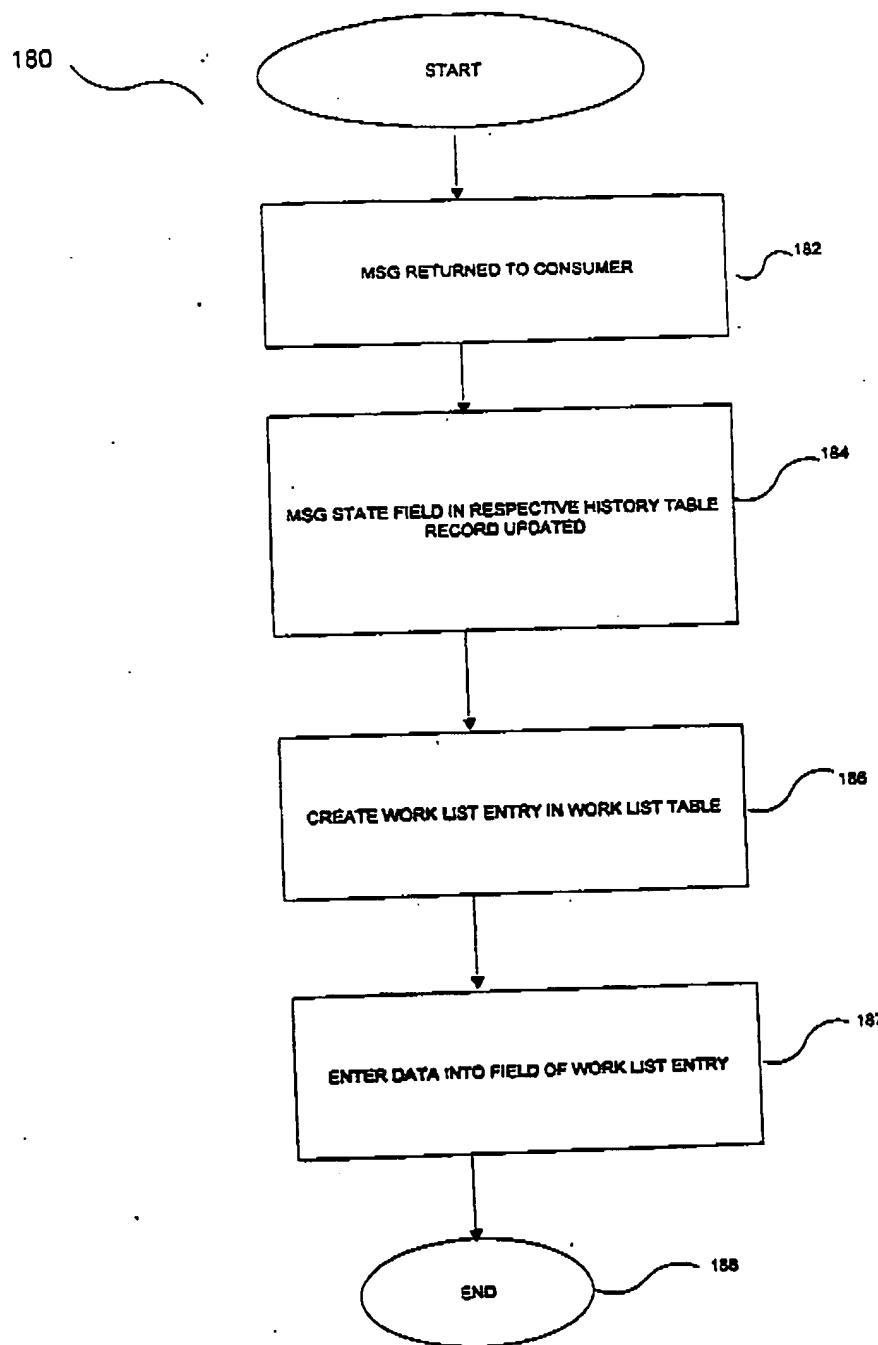


FIG. 12

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MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
201	MSG_X	wavy line
203	MSG_Y	wavy line

FIG. 13A-1



FIG. 13A-3

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	wavy line
MSG_X	B	ENQUEUED	wavy line
MSG_Y	A	ENQUEUED	wavy line
MSG_Y	B	ENQUEUED	wavy line
MSG_Y	C	ENQUEUED	wavy line
MSG_Y	D	ENQUEUED	wavy line

FIG. 13A-2

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
wavy line	MSG_X	wavy line
wavy line	MSG_Y	wavy line

FIG. 13B-1

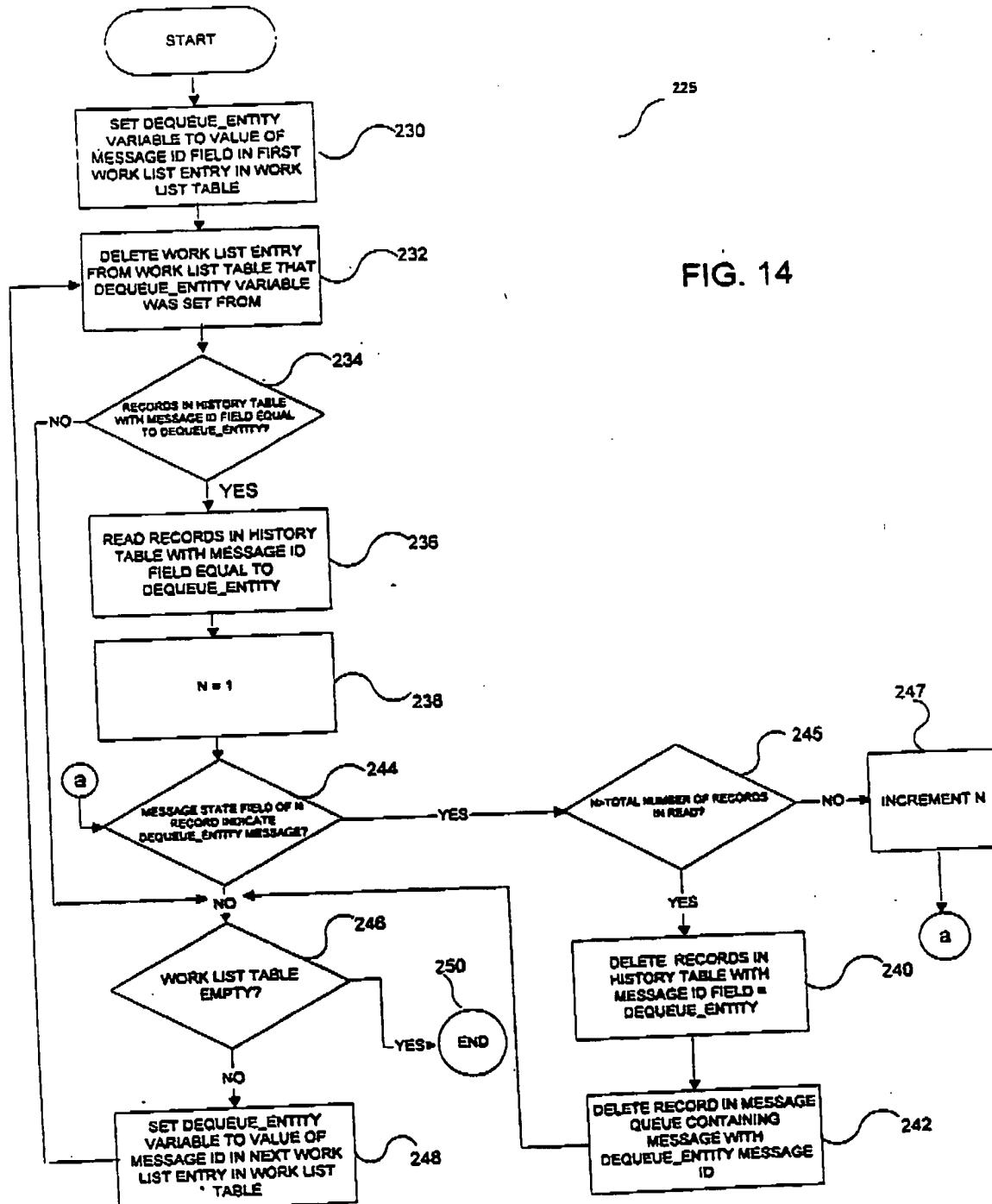


FIG. 13B-3

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	wavy line
MSG_X	B	READ	wavy line
MSG_Y	A	ENQUEUED	wavy line
MSG_Y	B	ENQUEUED	wavy line
MSG_Y	C	ENQUEUED	wavy line
MSG_Y	D	ENQUEUED	wavy line

FIG. 13B-2

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	MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
301 ~	wavy	MSG_X	wavy
303 ~	wavy	MSG_Y	wavy
305 ~	wavy	MSG_Z	wavy

FIG. 15A-1

	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
341 ~	MSG_X	A	ENQUEUED	wavy
342 ~	MSG_X	B	ENQUEUED	wavy
343 ~	MSG_Y	C	READ	wavy
344 ~	MSG_Z	A	READ	wavy
345 ~	MSG_Z	B	ENQUEUED	wavy
346 ~	MSG_Z	C	READ	wavy
347 ~	MSG_Z	D	ENQUEUED	wavy

FIG. 15A-2

	MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
337 ~	wavy	MSG_X	wavy
338 ~	wavy	MSG_Z	wavy

FIG. 15B-1

	MESSAGE ID
350 ~	

FIG. 15B-3

	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
351 ~	MSG_X	A	ENQUEUED	wavy
352 ~	MSG_X	B	ENQUEUED	wavy
353 ~	MSG_Z	A	READ	wavy
354 ~	MSG_Z	B	ENQUEUED	wavy
355 ~	MSG_Z	C	READ	wavy
356 ~	MSG_Z	D	ENQUEUED	wavy

FIG. 15B-2

	MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
337 ~	wavy	MSG_X	wavy
338 ~	wavy	MSG_Z	wavy

FIG. 15C-1

	MESSAGE ID
360 ~	
362 ~	MSG_X
364 ~	MSG_X
366 ~	MSG_Z

FIG. 15C-3

	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
334 ~	MSG_X	A	READ	wavy
336 ~	MSG_X	B	READ	wavy
361 ~	MSG_Z	A	READ	wavy
363 ~	MSG_Z	B	ENQUEUED	wavy
365 ~	MSG_Z	C	READ	wavy
367 ~	MSG_Z	D	READ	wavy

FIG. 15C-2

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
	MSG_Z	

FIG. 15D-1

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_Z	A	READ	
MSG_Z	B	ENQUEUED	
MSG_Z	C	READ	
MSG_Z	D	READ	

FIG. 15D-2

MESSAGE ID
MSG_X
MSG_Z

FIG. 15D-3

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
	MSG_Z	

FIG. 15E-1

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_Z	A	READ	
MSG_Z	B	ENQUEUED	
MSG_Z	C	READ	
MSG_Z	D	READ	

FIG. 15E-2

MESSAGE ID
MSG_Z

FIG. 15E-3

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
	MSG_Z	

FIG. 15F-1

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_Z	A	READ	
MSG_Z	B	ENQUEUED	
MSG_Z	C	READ	
MSG_Z	D	READ	

FIG. 15F-2

MESSAGE ID

FIG. 15F-3

MESSAGE ID	TIME	ACTION
458		
458		
458		

FIG. 16

500

MESSAGE ID	TIME	ACTION	
MSG_A	IMMEDIATELY	DELETE	502
MSG_B	8:00 a.m.	SHOW	504
MSG_X	IMMEDIATELY	EXPIRE	506
MSG_H	1/31/99	EXPIRE	508

FIG. 17

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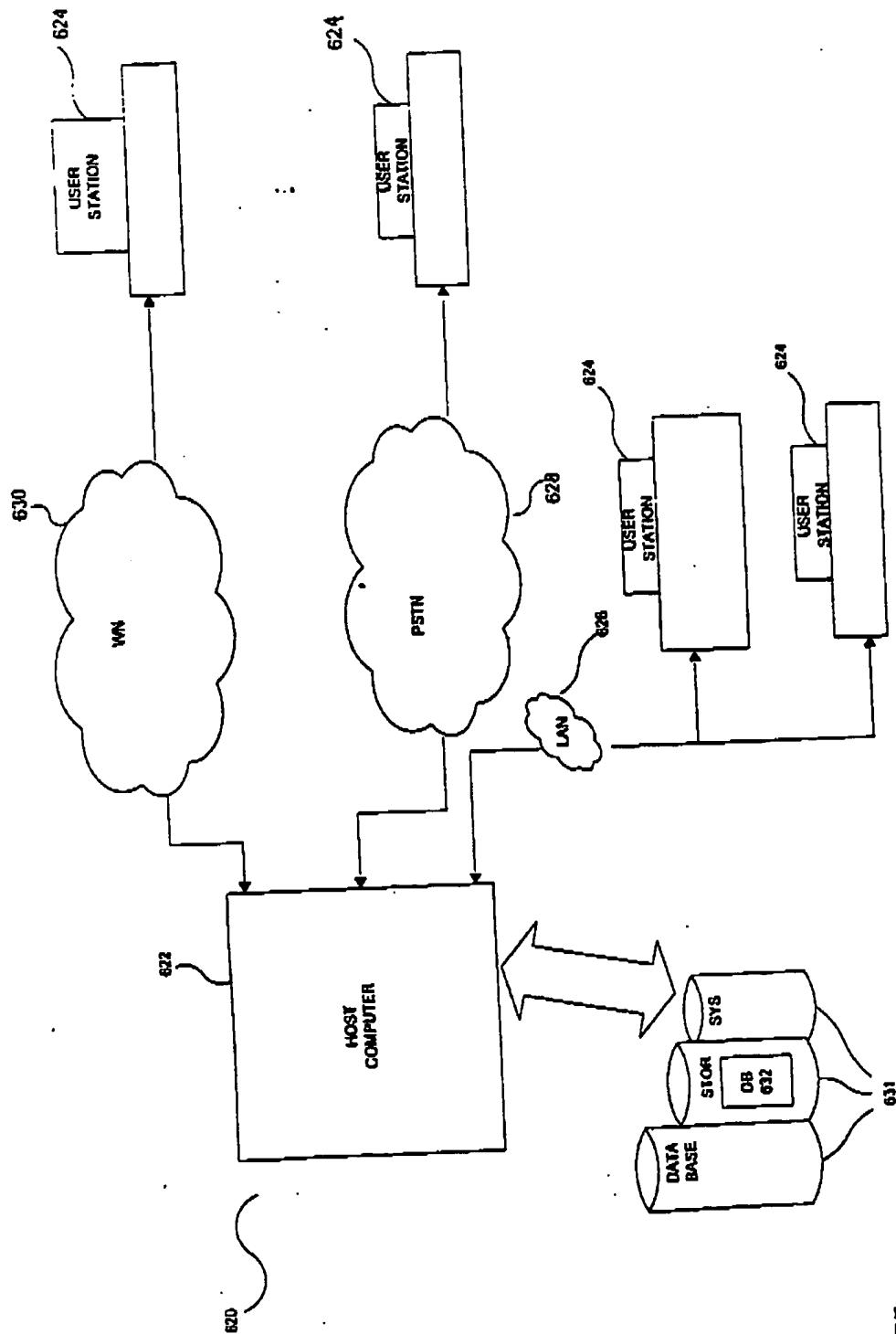


FIG. 18A

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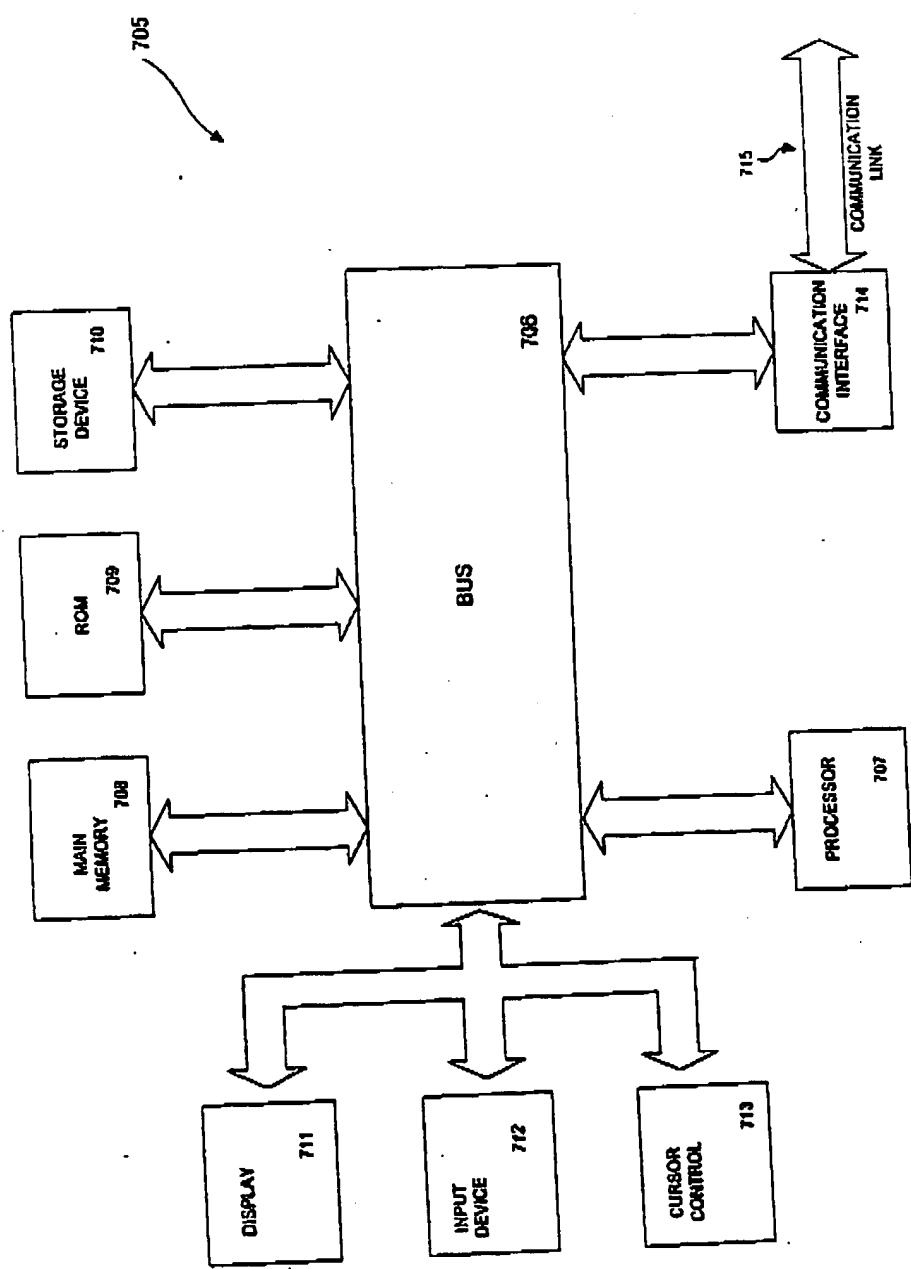


FIG. 18B

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